

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

<b>Applicants:</b>	<b>Jeffrey Goldmeer, et al.</b>	<b>Examiner:</b>	<b>Unassigned</b>
<b>Serial No:</b>	<b>Unassigned</b>	<b>Art Unit:</b>	<b>Unassigned</b>
<b>Filed:</b>	<b>Herewith</b>	<b>Docket:</b>	<b>17159</b>
<b>For:</b>	<b>POWER GENERATION SYSTEM USING A COMBUSTION SYSTEM AND A FUEL CELL</b>	<b>Dated:</b>	<b>February 4, 2004</b>

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, it is requested that the following references, which are also listed on the attached Form PTO-1449, be made of record in the above-identified case.

1. United States Patent No. 5,117,635, issued to Blau, dated June 2, 1992;
2. United States Patent No. 6,062,018, issued to Bussing, dated May 16, 2000;

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**CERTIFICATE OF MAILING BY EXPRESS MAIL**

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Date of Deposit: February 4, 2004

I hereby certify that this correspondence is being deposited with the United States Postal Service Express Mail Post Office to Addressee service under 37 C.F.R. §1.10 on the date indicated above and is addressed to Mail Stop Patent Application, Commissioner for Patents, Box 1450, Alexandria, VA 22313-1450.

Dated: February 4, 2004

  
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Paul J. Esatto, Jr.

3. United States Patent No. 4,648,322, issued to Heitz et al., dated March 10, 1987;
4. United States Patent No. 4,343,611, issued to Scott-Scott, dated August 10, 1982;
5. United States Patent No. 5,239,821, issued to Guirguis, dated August 31, 1993;
6. United States Patent No. 5,045,004, issued to Kim, dated September 3, 1991;
7. United States Patent No. 4,424,042, issued to Gongwer, dated January 3, 1984;
8. United States Patent No. 4,658,589, issued to Sutrina, dated April 21, 1987;
9. United States Patent No. 5,702,273, issued to Cho et al., dated December 30, 1997;
10. United States Patent Application Publication No. US 2003/0131584 A1, to Butler et al., dated July 17, 2003;
11. European Patent Application No. 0 189 659 A1, dated August 6, 1996;
12. Dean, A.J., "Recent Developments in Approaches to Pulsed Detonation Propulsion", American Institute of Aeronautics and Astronautics (2003), pp. 2-13;
13. Tangirala, V.E., et al., "Investigations of Cyclic Pulsed Detonation Processes: Experiments and Calculations", 19<sup>th</sup> International Colloquium on Dynamics and Explosions and Reactive Systems, pp. 1-14;
14. Groff, E.G., et al., "Steady Metal Combustor as a Closed Thermal Energy Source", Journal of Hydronautics (1978), Vol. 12, No. 2, pp. 63-70;
15. Hughes, T.G., et al., "Stored Chemical Energy Propulsion System for Underwater Applications", Journal of Energy (1983), Vol. 7, No. 2, pp. 128-133;
16. Miller, Timothy F., "A Next Generation AUV Energy System Based on Aluminum-Seawater Combustion", Autonomous Underwater Vehicles 2002, San Antonio, Texas, June 2002, pp. 1-9;
17. Greiner, Leonard, "Theoretical Performances with Hydrogen-Oxygen as Propellant of Perfect Rocket, Heat, and Fuel-Cell Engines in Underwater Missiles", Underwater Missile Propulsion (1967), pp. 31-50;

18. Smith, K.E., et al., "A Closed-Cycle Propulsion System For Deep Submergence", Underwater Missile Propulsion (1967), pp. 301-316; and
19. "Hybrid Torpedo Propulsion (HTP)", retrieved from Department of Naval Research Web site:  
[http://www.onr.navy.mil/sci\\_tech/engineering/docs/hybrd\\_torp\\_prop.pdf](http://www.onr.navy.mil/sci_tech/engineering/docs/hybrd_torp_prop.pdf).

In accordance with the waiver of 37 C.F.R. § 1.98 (a)(2)(i), per 1276 OG 55, August 5, 2003, applicants are not required to submit copies of the above-cited U.S. Patent references.

Applicants are submitting copies of references 11-19.

Inasmuch as this Information Disclosure Statement is being submitted in accordance with the schedule set out in 37 C.F.R. § 1.97(b), no statement or fee is required.

Respectfully submitted,



Paul J. Esatto, Jr.  
Registration No. 30,749

Scully, Scott, Murphy & Presser  
400 Garden City Plaza  
Garden City, New York 11530  
(516) 742-4343

PJE:AVS:jap

INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)			Docket Number (Optional) <b>17159</b>		Application Number <b>Unassigned</b>	
			Applicant(s) <b>Jeffrey Goldmeer et al.</b>			
			Filing Date <b>Herewith</b>		Group Art Unit <b>Unassigned</b>	

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		<b>5,117,635</b>	<b>6/2/1992</b>	<b>Blau</b>			
		<b>6,062,018</b>	<b>5/16/2000</b>	<b>Bussing</b>			
		<b>4,648,322</b>	<b>3/10/1987</b>	<b>Heitz et al.</b>			
		<b>4,343,611</b>	<b>8/10/1982</b>	<b>Scott-Scott</b>			
		<b>5,239,821</b>	<b>8/31/1993</b>	<b>Guirguis</b>			
		<b>5,045,004</b>	<b>9/3/1991</b>	<b>Kim</b>			
		<b>4,424,042</b>	<b>1/3/1984</b>	<b>Gongwer</b>			
		<b>4,658,589</b>	<b>4/21/1987</b>	<b>Sutrina</b>			
		<b>5,702,273</b>	<b>12/30/1997</b>	<b>Cho et al.</b>			

**FOREIGN PATENT DOCUMENTS**

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLAS S	TRANSLATION	
							YES	NO
		<b>0 189 659 A1</b>	<b>8/6/1996</b>	<b>Europe</b>				

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

		Dean, A.J., "Recent Developments in Approaches to Pulsed Detonation Propulsion", American Institute of Aeronautics and Astronautics (2003), pp. 2-13.
		Tangirala, V.E., et al., "Investigations of Cyclic Pulsed Detonation Processes: Experiments and Calculations", 19 <sup>th</sup> International Colloquium on Dynamics and Explosions and Reactive Systems, pp. 1-14.
		Groff, E.G., et al., "Steady Metal Combustor as a Closed Thermal Energy Source", Journal of Hydronautics (1978), Vol. 12, No. 2, pp. 63-70.

EXAMINER	DATE CONSIDERED

**EXAMINER:** Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		<b>US 2003/0131584 A1</b>	<b>7/17/2003</b>	<b>Butler et al.</b>				
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		Hughes, T.G., et al., "Stored Chemical Energy Propulsion System for Underwater Applications", Journal of Energy (1983), Vol. 7, No. 2, pp. 128-133.						
		Miller, Timothy F., "A Next Generation AUV Energy System Based on Aluminum-Seawater Combustion", Autonomous Underwater Vehicles 2002, San Antonio, Texas, June 2002, pp. 1-9.						
		Greiner, Leonard, "Theoretical Performances with Hydrogen-Oxygen as Propellant of Perfect Rocket, Heat, and Fuel-Cell Engines in Underwater Missiles", Underwater Missile Propulsion (1967), pp. 31-50.						
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		"Hybrid Torpedo Propulsion (HTP)", retrieved from Department of Naval Research Web site: <a href="http://www.onr.navy.mil/sci_tech/engineering/docs/hybrd_torp_prop.pdf">http://www.onr.navy.mil/sci_tech/engineering/docs/hybrd_torp_prop.pdf</a> .						
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